

### STATUS OF THE CLAIMS

Claims 1-13 and 16-20 were rejected.

Claim 1 and 15 have been amended.

Claims 13 and 14 have been cancelled.

Claims 1-12 and 15-20 are pending in the application.

### REMARKS

In the office action of April 24, 2001, Examiner rejected claims 1, 19, and 20 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,003,768 to Clements in view of U.S. Patent No. 5,603,668 to Antonious and U.S. Patent No. 1,695,598 to MacClain. Claims 2-13 and 16-18 were rejected under 35 U.S.C. 103(a) as being unpatentable over the preceding references and further in view of Sun et al. and Simmons. Claims 14 and 15 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

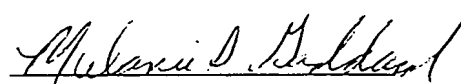
Applicant has amended claim 1 to include the limitations of claim 14. Claim 15 has been amended to depend from amended claim 1. Claims 13 and 14 have been cancelled.

In view of the amendments, Applicant respectfully submits that claims 1-12 and 15-20 are in condition for allowance. Allowance of the pending claims at an early date is earnestly solicited.

The Commissioner is hereby authorized to charge any fees that may be due in connection with these remarks to Deposit Account No. 04-1679.

Respectfully submitted,

Dated: 7/18/02



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

**In the claims:**

1. (Twice Amended) A golf club head comprising:

a hosel located at a heel end to accommodate a shaft, and

a metal blade comprising a striking face, a sole, a rear face, and a knife-like leading edge, the striking face and the sole meeting at the knife-like leading edge, the sole having a protrusion running substantially parallel to the leading edge and located at the juncture of the sole and the rear face, the rear face meeting the striking face at a trailing edge, and wherein the knife-like leading edge is serrated.

2. (Unchanged) The golf club head of claim 1, further including at least one metal dowel disposed in the metal blade and located substantially forward of and substantially parallel to an apex of the protrusion of the sole.

3. (Unchanged) The golf club head of claim 1, further including a leading metal dowel and a trailing metal dowel disposed in the metal blade and located substantially on each side of an apex of the protrusion of the sole, the leading metal dowel disposed between the protrusion of the sole and the leading edge and the trailing metal dowel disposed between the protrusion of the sole and the trailing edge.

4. (Unchanged) The golf club head of claim 3, wherein the leading metal dowel is cylindrical and smaller in diameter than the trailing metal dowel, the trailing metal dowel also being cylindrical.

5. (Unchanged) The golf club head of claim 4, wherein the leading metal dowel has a diameter of 0.25 inch or less, and the trailing metal dowel has a diameter between 0.375 inch and 0.4375 inch.

6. (Unchanged) The golf club head of claim 2, wherein the metal dowel is disposed between approximately 0.25 inch from an edge of the metal blade connected to the hosel of the golf club head and 0.25 inch from the center of a toe edge of the golf club head opposite the hosel of the golf club head.

7. (Unchanged) The golf club head of claim 2, wherein the metal dowel is made of a metal having a density greater than the density of the metal from which the metal blade is formed.

8. (Unchanged) The golf club head of claim 7, wherein the metal dowel is made of lead.
  9. (Unchanged) The golf club head of claim 7, wherein the metal dowel is made of tungsten.
  10. (Unchanged) The golf club head of claim 7, wherein the metal dowel is made of steel.
  11. (Unchanged) The golf club head of claim 1, wherein the angle between the striking face and a vertical plane in which the hosel of the golf club head is positioned in when it is in a substantially upright address position is between  $45^{\circ}$  and  $60^{\circ}$ , where the vertical plane is perpendicular to the ground level horizontal plane and parallel to the leading edge of the club head.
  12. (Unchanged) The golf club head of claim 1, wherein the angle between the striking face and the sole is between  $20^{\circ}$  and  $30^{\circ}$ .
- Please cancel claim 13 and 14.
15. (Amended) The golf club head of claim [14] 1, wherein the distance between a pair of adjacent troughs of the knife-like leading edge is between 0.1875 inch and 0.250 inch.
  16. (Unchanged) The golf club head of claim 1, wherein the thickness of the metal blade between the striking face and a planar portion of the rear face positioned substantially parallel to the striking face is between 0.8125 inch and 0.875 inch.
  17. (Unchanged) The golf club head of claim 1, wherein a distance from the leading edge to the trailing edge of the golf club head at a point where a set of grooves ends toward the toe end of the club head is between 2.375 inches and 2.5 inches.
  18. (Unchanged) The golf club head of claim 1, wherein the angle at the point of the leading edge between ground level and the downward most point of the rounded protrusion of the sole is approximately  $10^{\circ}$  when the hosel of the golf club head is in a substantially upright address position in a vertical plane that is perpendicular to the ground level horizontal plane and parallel to the leading edge of the golf club head.
  19. (Unchanged) The golf club head of claim 1, further including a shaft attached to the hosel and having a handle positioned at an end opposite the hosel.
  20. (Unchanged) The golf club head of claim 1, wherein the striking face is abrasive.